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MISSOURI DEPARTMENT OF TRANSPORTATION JOB OPPORTUNITY ANNOUNCEMENT

Date Posted: 11/14/2016

Application Deadline: 11/28/2016

Job Post ID: 9184

Job Title: Survey Technician / Intermediate Survey Technician / Senior Survey Technician / Land Surveyor in Training / Land Surveyor

Min Monthly Salary: \$2,430.00 / \$2,744.00 / \$3,048.00 / \$3,389.00 / \$3,576.00

Number Positions: 1

Location: Kansas City District Office, 600 NE Colburn Road, Lee's Summit, MO 64086

District/Division: Kansas City / Design Division

Human Resources Contact Number: 816-607-2144

General Summary:

--- Survey Technician ---

The survey technician assists the field survey party by making survey measurements for route surveys by operating various field equipment. Responsibilities are performed under direct supervision.

--- Intermediate Survey Technician ---

The intermediate survey technician assists in field surveys by conducting measurements and assisting in the operation of surveying instruments. Responsibilities are performed under direct supervision.

--- Senior Survey Technician ---

The senior survey technician is responsible for assisting in the operation of surveying instruments and the recording of surveying data. Responsibilities are performed under direct supervision.

--- Land Surveyor in Training ---

The land surveyor-in-training operates surveying equipment and performs a variety of beginning level land survey duties under close supervision of a registered land surveyor. Responsibilities are performed under direct supervision.

--- Land Surveyor ---

The land surveyor provides the necessary field data, research, and calculations needed to produce maps and digital terrain models for the design of highways and the acquisition of right-of-way. Responsibilities are performed under moderate supervision.

Minimum/Required Qualifications:

--- Survey Technician ---

High School Diploma or GED/HiSET, including successful completion of a trigonometry course and three creditable hours of college level surveying courses towards registration as a Professional Land Surveyor.

One year of experience in route surveying.

Successful completion of a work simulation examination and a medical-physical examination.

--- Intermediate Survey Technician ---

High School Diploma or GED/HiSET, including successful completion of a trigonometry course and six creditable hours of college level surveying courses towards registration as a Professional Land Surveyor.

Three years of experience in route surveying.

Successful completion of a work simulation examination and a medical-physical examination.

--- Senior Survey Technician ---

High School Diploma or GED/HiSET, including successful completion of a trigonometry course and twelve creditable hours of college level surveying courses towards registration as a Professional Land Surveyor.

Five years of experience in route surveying.

Successful completion of a work simulation examination and a medical-physical examination.

--- Land Surveyor in Training ---

High School Diploma or GED/HiSET

Certificate of enrollment as a Land Surveyor-In-Training as issued by the Missouri Board for Architects, Professional Engineers, and Land Surveyors.

Successful completion of a work simulation examination and a medical-physical examination.

--- Land Surveyor ---

High School Diploma or GED/HiSET

Licensure as a Professional Land Surveyor in the State of Missouri

Successful completion of a range of motion examination and a medical-physical examination.

Supervisory Responsibilities:

--- Survey Technician ---

None

--- Intermediate Survey Technician ---

None

--- Senior Survey Technician ---

Lead Worker Only

--- Land Surveyor in Training ---

Lead Worker Only

--- Land Surveyor ---

Lead Worker Only

Special Working Conditions/Job Characteristics:

--- Survey Technician ---

Job requires moderate physical activity.

Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.

Job may require operation of vehicles to plow snow and spread ice control materials.

--- Intermediate Survey Technician ---

Job requires moderate physical activity.

Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.

Job may require operation of vehicles to plow snow and spread ice control materials.

--- Senior Survey Technician ---

Job requires moderate physical activity.

Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.

Job may require operation of vehicles to plow snow and spread ice control materials.

--- Land Surveyor in Training ---

Job requires moderate physical activity.

Job requires exposure to moderately adverse and undesirable environmental conditions.

Job may require operation of vehicles to plow snow and spread ice control materials.

--- Land Surveyor ---

Job requires moderate physical activity.

Job requires exposure to moderately adverse and undesirable environmental conditions.

Job may require operation of vehicles to plow snow and spread ice control materials.

Examples of Work:

--- Survey Technician ---

- Operates surveying equipment in accordance with department methods and processes.
- Participates in measuring operations to establish horizontal and vertical centerline control.
- Performs measurements and marking of locations for soundings, soil and geological surveys, intermediate right-of-way locations, and easement corners.
- Sets out safety devices, work zone signs, traffic cones, and warning flags; places targets for photogrammetry.
- Records survey data such as centerline profile, cross sections, vertical control and culvert sections in electronic field book.
- Maintains survey equipment, safety devices, supplies and vehicles; computes and records mileage for survey vehicles.
- Performs other responsibilities as required or assigned.

--- Intermediate Survey Technician ---

- Operates surveying equipment in accordance with department methods and processes.
- Records field notes and electronic data; checks feature location and coding for recording in electronic data collector; downloads and archives data to computer.
- Directs measurements for stake-out, selects and sets locations for intermediate control points for engineering surveys, sets locations of alignment, structures, right-of-way breaks, easement corners and makes horizontal side shoots.
- Plans target locations for photogrammetry and conducts placement and referencing of aerial targets and control movements.
- Researches notes and automated records for availability of horizontal, vertical, public land corner, and geodetic reference system monumentation.
- May perform mathematical computations related to field layout, note reduction, horizontal closure checks, vertical network adjustments, and point averaging.
- Performs other responsibilities as required or assigned.

--- Senior Survey Technician ---

- Operates surveying equipment in accordance with department methods and processes.
- Records field notes and electronic data; checks notes for reference and accessories taken by others; sketches and records accessory measurements; checks feature location and coding for recording in electronic data collector.
- Directs measurements for stake-out; selects and sets locations for intermediate control points, horizontal control points, vertical control networks, and 3D control stations for engineering surveys; sets locations of alignment, structures, right-of-way breaks, easement corners, and control monuments; makes traverse observations.
- May make mathematical computations related to field layout, note reduction, horizontal closure checks, and vertical network adjustments; may check computations of others.
- Researches notes and automated records for availability of horizontal, vertical, public land corner, and Geographic Reference System (GRS) monumentation; assists in measuring and recording accessory locations for recovery documents.
- Directs the activities of the leveling party; may lead field activities for horizontal control and site selection for control stations.
- Transfers electronic data collector files, raw observation files, and control files to computer utilizing transfer software; assists in the generating of map models, terrain models, and editing of automated files; may archive survey data upon review.
- Assists in the placement and referencing of aerial targets and control monuments.

- Performs lead worker responsibilities, which may include providing general instruction, assigning and reviewing work, coaching and training, providing guidance and instruction in the proper and most efficient methods of accomplishing tasks, and providing input to the direct supervisor on staffing decisions and performance management.
- Performs other responsibilities as required or assigned.

--- Land Surveyor in Training ---

- Operates and maintains complex and highly technical surveying equipment.
- Collects data and records pertinent information in survey data recorder and/or field books.
- Performs mathematical computations related to field layout calculations.
- Performs deed, title, and map research, monument investigation, and assists in establishing control for boundary and right of way.
- Converses with property owners to gain access to private property and answer questions concerning the progress of survey work on or near landowner's property; contacts local governments and utility companies to secure information.
- May create and review location survey plans and descriptions under the supervision of a professional land surveyor.
- Performs lead worker responsibilities, which may include providing general instruction, assigning and reviewing work, coaching and training, providing guidance and instruction in the proper and most efficient methods of accomplishing tasks, and providing input to the direct supervisor on staffing decisions and performance management.
- Performs other responsibilities as required or assigned.

--- Land Surveyor ---

- Operates and maintains complex and highly technical surveying equipment.
- Performs deed, title and map research, monument investigation, and assists in establishing control for boundary and right of way.
- Converses with property owners to gain access to private property and answer questions concerning the progress of survey work on or near landowner's property; contacts local governments and utility companies to secure information.
- Performs mathematical computations for field layout and land surveying calculations that require professional judgement to determine right-of-way and land corner positions.
- Collects data and records pertinent information in survey data recorder and/or field books.
- Provides professional land surveying services for highway design, land management, and other purposes when needed.
- May review the preparation of plats, maps, reports, descriptions, surveys, digital map models and data filing editing.
- Performs lead worker responsibilities, which may include providing general instruction, assigning and reviewing work, coaching and training, providing guidance and instruction in the proper and most efficient methods of accomplishing tasks, and providing input to the direct supervisor on staffing decisions and performance management.
- Performs other responsibilities as required or assigned.

In order to be considered for this vacancy please go to the Missouri Department of Transportation [Employment Application System \(EAS\)](#) and submit an on-line application. Applications, and if applicable transcripts, must be received by no later than 11:55 pm of the closing date listed on the advertised vacancy.

Equal Employment Opportunity / Affirmative Action Employer, M/F/D/V